

Claims

- 1 、 An improved drawer interlocking mechanism mainly consists of a base, an axle cam and two sets of brakes, with features as follows:

the base is locked into one end of the drawer rail; along the peripheral of the axle hole, there are a number of curved holes at equal angle; at the bottom of the axle hole, there is a gradient ladder, slots available for placing two sets of brakes, and a sticking convex point on the central axle line of the axle hole;

at the bottom of the axle cam, there is a sticking block; on the outer edge, there is a sticking gradient edge surface and a sticking flexible and moveable tab on the edge of each groove and a sticking top column on the intercepting side of the tab, which allows the axle cam in the axle hole for free rotation; when the guide groove of the flip cover of the drawer slider is inserted or takes off, the top column offers an angle-limiting effect on the rotation; after rotation by an angle, the tab matches and locks into the curved hole along the axle hole for positioning purpose;

the two sets of brakes are inserted in the slots of the base; on the two sides, there are sticking stoppers; the connection forms a symmetrical shape for placing brakes into the slot in any direction of the base; the spacing between the two stoppers is available for the rotation of the block of the axle cam; the slot holding the brake has a corresponding convex point on the axle line that has a guide groove for holding the convex point as slide guide; on the surface of where the guide groove is introduced, there is a sticking stop to block the convex point; thus, it provides a position-limiting effect on the guide groove that is moving outward.

2、As described in Claim 1 for the improved drawer interlocking mechanism, at the rail position corresponding to the slot of the base, there is a corresponding slot with same diameter.

5 3、As described in Claim 1 for the improved drawer interlocking mechanism, the axle cam rotating in the axle hole has one side blocked by the rail and the other side blocked by the gradient surface of the base, so the axle cam is kept in the axle hole from dropping out.